

TRY THIS.

An Interesting Electric Blue Light Experiment.

Take a jump-spark coil and connect t up with a battery and start the vibrator. Then take



one outlet wire, R, and connect to one side of a twocandle-power elec tric lamp and the other outlet wire, hold in one

ventors

hand and press all fingers of the other hand on globe at point A. A bright, blue light will come from the wires in the lamp to the surface of the globe where the fingers touth. But, says Popular Mechanics, no shock will be perceptible

ated near swiftly running streams The consumption of electric lamps even in the smallest villages, is described as being enormous. Every-Switzerland.

Some curbstone brokers in New York are using wireless receivers instead of megaphones to get market

Giraffes and elephants are said to ductors constructed upon this plan lay havoc with telephone lines in may be made cheaper than conductors

WORN TO A SKELETON. MACHINE DISPLACES MEN.

Electric Mechanical Bookkeeper Does

Away with Clerks.

One of the leading Chicago banks

which employs 600 clerks, expects to be able to greatly reduce its force by

the use of a new mechanical calcula-tor. This machine, says Popular Me-

chanics, does much more than the add-

ing machines already in general use.

It adds, subtracts, divides and multi-plies and caluculates in both vertical

and horizontal lines simultaneously. It is operated by keys and resembles

a typewriter. It is run by a small electric motor and prints its records.

It is the invention of a bank bookkeep-

er, who has spent 12 years in perfect-

ing it. He claims it will save one-half

the time now spent in keeping books.

Development of Electric Road.

The electric railway had many "in-

provements brought the system to its

present usefulness. Thomas Daven-

port, a blacksmith of Brandon, Vt., is

credited with having first suggested

the electric railway, although an Italian priest, Abbe Salvatore Del Negro,

University of Padua, is reputed to have designed an electric toy traction

machine of the reciprocating type in

1830. Davenport ran a toy motor mounted on wheels on a small circu-

lar railway in 1834, exhibiting this a

year later at Springfield and Boston,

however, before the electric railway

was made practical for present uses.

Sodium for Electric Uses.

Sodium is an excellent conductor of electricity, and in view of the increas-

ing price of copper and the growing demand for that metal not only for

electric installations, but for many other purposes, the idea has been

broached that sodium should be tried as a material for electric cables. Ex-

periments looking to this end have

lately been made by Mr. A. G. Bett.

He filled an iron tube 130 feet in length with melted sodium. The core

thus formed had a cross-section of an inch and a half. A current of 500 am-

peres was readily transmitted through it. Mr. Bett thinks that sodium con-

About half a century passed,

professor of natural history at

-persons who by various im-

A Wonderful Restoration Caused a Sensation In a Pennsylvania Town.

Mrs. Charles N. Preston, of Elkland, Pa., says: "Three years ago I found



that my housework was becoming a burden. I tired easily had no ambition and was failing fast. My complexion got yellow, and I lost over 50 pounds. My thirst was terrible, and there was sugar in the kidney secretions.

My doctor kept me on a strict diet, but as his medicine was not helping me, I began using Doan's Kidney Pills. They helped me at once, and soon all traces of sugar disappeared. I have regained my former weight and am

perfectly well."

Sold by all dealers. 50 cents a box Foster-Milburn Co., Buffalo, N. Y.

TWAS IN TATER TIME.

One Thing, at Least, the Mother Was Positive About.

The late Senator Platt of Connec ticut enjoyed funny stories and could tell a good many himself. Notwith-standing his long public life, he always remembered a yarn that he carried from his school days.

One year when the district schools opened in his town one of the teachers, in making a record of the ages of her pupils, as required by law, found that one little girl, who came from a family not noted for being especially bright, was unable to say when her birthday came.

So in order to complete her records, the teacher walked two miles to see the girl's mother one afternoon after school. Asked if she could remem ber just when her daughter was born, the woman thought for some time, and then with a sort of puz-

"Well, the gal was born in 'tater time, that's sure, but I can't 'member whether they was a-plantin' on 'em or a-diggin' on 'em."

Tom Ochiltree's Moon.

After Tom Ochiltree, that able con-gress raconteur and laugh generator for the afflicted rich, settled in New York as the amuser of the John W. Mackay family, he effervesced in a thousand different directions, and was as good in some ways as Sam Ward. One night he escorted John Mackay's friend, the Count de Biscout, down to the Battery to show the sight of New York. The moon was grand, and the count went into raptures as "her maiden reflection rippled over the pearly waters." He cried: "Eet iss grand! Eet is grand! Dair iss no such moon in all Italy!" "Count," said Ochiltree, solemnly, as befitted the occasion, "you just ought to see the moon in Texas!"

A Pardonable Fault.

Dr. Edward Everett Hale, discussing a rather finicky attack that had been made on certain recent statements, smiled and said:

"But who or what is blamelesss? It is like the case of the Scottish hen. An old Scottish woman wished to sell

a hen to a neighbor.
"'But tell me,' the neighbor said,
'is she a'thegither a guid bird? Has she got nae fauts, nae fauts at all?" "'Awell, Margot,' the other old woman admitted, 'she has got one fault. She will lay on the Lord's day.'"

Tripped.

Gunner-So you think the DeBlow ers are faking about their extended European tour?

Guyer-I should say so. They said there were so many Americans in Venice that many had to walk in the middle of the street. Gunner-Well?

Guyer-Why, the streets of Venice are canals.

FAMILY FOOD.

Crisp, Toothsome and Requires No Cooking.

A little boy down in N. C. asked his mother to write an account of how Grape-Nuts food had helped their fam-

She says Grape-Nuts was first brought to her attention on a visit to Charlotte, where she visited the Mayor of that city who was using the food by the advice of his physician. She

says:
"They derive so much good from it that they never pass a day without using it. While I was there I used the Food regularly. I gained about 15 pounds and felt so well that when I re-

"My little 18 months old baby shortly after being weaned was very ill with dyspepsia and teething. She was sick nine weeks and we tried everything. She became so emaciated that it was painful to handle her and we thought we were going to lose her. One day a happy tho ht urged me to try Grape-Nuts soaked in a little warm

"Well, it worked like a charm and she began taking it regularly and improvement set in at once. She is now getting well and round and fat as fast

'Sometime ago several of the family were stricken with LaGrippe at the same time, and during the worst stages we could not relish anything in the shape of food but Grape-Nuts oranges, everything else nauseated us

IN THE SUPERLATIVE DEGREE. Little Son's Explanation Seemed to Cover the Case.

Little son, aged seven, whose training has been of the most painstaking and conscientious, rather took away his mother's breath in describing the dog's game of ball. He ended with:

"And, mother, Topsy caught the ball in her mouth, and then just ran like "Like what?" cried the startled

mother.
"W'y, like h—, don't you know,
mother?" innocently.
"No, I don't believe I do. Just how

is that, dear?" she asked faintly.
"Well, I don't know jus' what it
means, myself," he confessed, "but it's
a whole lot faster than 'lickety-split!'"

CASE OF ECZEMA IN SOUTH.

Suffered Three Years-Hands and Eye Most Affected-Now Well and Is Grateful to Cuticura.

"My wife was taken badly with eczema for three years, and she employed a doctor with no effect at all until she employed Cuticura Soap and Ointment. One of her hands and her left eye were badly affected, and when she would stop using Cutioura Soap and Cintment the eczema came back, but very slightly, but it did her a sight of Then we used the entire set of Cuticura Remedies and my wife is en-tirely recovered. She thanks Cuticura very much and will recommend it highly in our locality and in every neok and corner of our parish. I. M. Robert, Hydropolis, La., Jan. 5 and Sept. 1, 1906."

A Hopeless Case.

Yes, said the business man, Thave given up trying to collect that little bill from Bilkins. You see, he is a big, muscular fellow, and he used to throw my collectors out."

"Then why didn't you employ a woman collector?" inquired a writer in Spare Moments. "He couldn't do that to a woman."

"That's what I thought, so I got one and sent her round, but she never came back.'

Why not?" "He married her."

NEW HOMES IN THE WEST.

Send for free copy of pamphlet containing synopsis of the United States homestead laws and information how to secure a quarter section of splendic farming or grazing land free along the new railway lines of the Chicago & North-Western Ry. in South Dakota Wyoming and other states. Special excursion rates to homeseekers. information on request Kniskern, Passenger Traffic Manager, C. & N. W. Ry., Chicago.

Statue Finally Completed.

When Alfred Stevens designed the noble monument to the duke of Wellington in St. Paul's cathedral, Lor don, he intended that his work should be crowned by an equestrian statue. But Stevens died before his design was carried out. Now, 32 years after his death, the equestrian statue has been completed and before long will be placed in position.

How's This?

We offer One Hundred Dollars Reward for any case of Catarrh that cannot be cured by Hall's Catarrh Cure.

Gatarrh Cure. F. J. CHENEY & CO., Toledo, O.
We, the understrated have known F. J. Chency
for the last 15 years, and believe him perfectly no
rable in all business transactions and financially
able to carry out any obligations made by his firm.

Wholesale Drugstiss, Toledo, O.
Hall's Catarrh Cure is taken internally, acting
directly upon the blood and nucous surfaces of the
system. Testimonials sent free. Price 75 cents per
bottle. Sold by all Drugstiss. ottle. Sold by all Druggists.

Take Hall's Family Pills for constipation.

Oldest Congregational Church.

The Pilgrim Congregational church near London, founded in 1616, is the oldest of the denomination in the empire, and it was from it that the Loncontingent of the men of the Mayflower was recruited.

Shake Into Your Shoes

Allen's Foot-Ease. It cures painful, swollen, smarting, sweating feet. Makes new shoes easy. Sold by all Druggists and Shoe Stores. Don't accept any substitute. Sample FREE. Address A. S. Olmsted, Le Roy, N. Y.

Natural Fly-Paper.

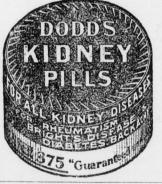
The pingulcula is a plant which is a natural fly-paper. Its leaves are constantly covered with a sticky substance that traps all insects alighting thereon.

No Headache in the Morning. Krause's Headache Capsules for over-indulgence in food or drink. Druggists, 25c. Norman Lichty Mfg. Co., Des Moines, Ia.

Sends Emigrants to Canada. The Salvation Army in England is sending emigrants to Canada in batches of 600 monthly.

Mrs. Winslow's Soothing Syrup.
For children teething, softens the gums, reduces in-flammation, aliays pain, cures wind colic. 25c a bottle.

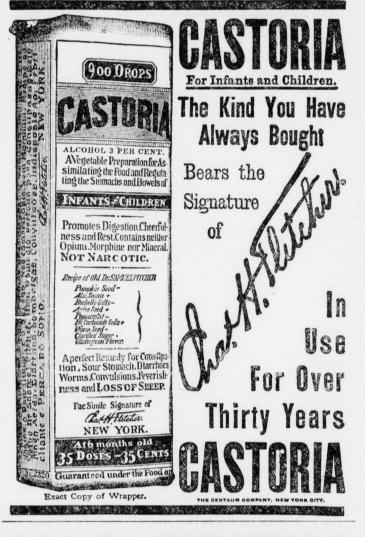
Live pure, speak true, right wrong -else, wherefore born?—Tennyson.



Sapphire Mining Revived. Sapphire mining in Kashmir is being revived by a new company, composed of Europeans of high standing and wealthy natives.

I don't think much of a man who is not wiser to-day than he was yesterday.-Abraham Lincoln.

A. N. K.—C (1907—37) 2195.



ALONG A NEW LINE

Today the great opportunities in farming, in cattle raising, in timber and in commercial lines are in the country and in the towns along the Pacific Coast extension of the

CHICAGO, MILWAUKEE & ST. PAUL

It is worth your while to investigate these openings. This can best be done by a personal visit. Such a trip is made inexpensive by the low rates via this railway to North Dakota, South Dakota, Montana, Idaho and Washington. If you are interested, write for information, asking specific questions. A letter and a descriptive book and map will be sent by return mail.

> F. A. MILLER GENERAL PASSENGER AGENT CHICAGO



25 years. We guarantee the Olds Engines will run properly. The price is right. The engine is reliable and simple. We treat you right. There is an agent near by to see everything is right and kept so.

We have a <u>liberal proposition to make to you</u>, besides furnishing you the best engine made. Let us tell you about it, because it will surely interest you.

We can furnish you our Type A engine, set up on skids if desired, 3 to 8 h. p. ready to run when you get it—does not have to be set up—no piping to connect, no foundation to build—simply fill with gasoline (or distillate) throw on the switch, turn the wheel and it goes.

Easy to start winter or summer. The cheapest of all engines for farm and stationary power. Has removable water jacket, all latest improvements, and has been adopted by the United States Government. Send for our catalog of 3 to 50 h. p. and be sure you take advantage of our proposition and save money.

OLDS GAS POWER CO.

Main Office—985 Seager St., Lansing, Mich.
Minneapolis—313 So. Front St. Kansas City, Mo.—1225 W. Eleventh St. Omaha—1018 Farnam St.

\$3.00 & \$3.50 SHOES BESTIN THE WORLD SHOES FOR EVERY MEMBER OF THE WORLD THE FAMILY. AT ALL PRICES.

\$25,000 (To any one who can prove W.L. Reward (To any other manufacturer. THE REASON W. L. Douglas does not make 2 soil more than any other manufacturer. THE REASON W. L. Douglas shoes are worn by more people in all walks of life than any other make, is because of their excellent style, easy-fitting, and superior wearing qualities. The selection of the leathers and other materials for each part of the shoe, and every detail of the making is looked after by the most completeorganization of superintendents, foremen and skilled shoemakers, who receive the highest wages paide the shoe industry, and whose workmansine cannot be excelled.

The selection of the leathers and other materials for each part of the shoe, and every detail of the making is looked after by the most completeorganization of superintendents, foremen and skilled shoemakers, who receive the highest wages paide the shoes are made, you would then understand why they hold has choose are made, you would then understand why they hold has choose are made, you would then understand why they hold has choose are made, you would then understand why they hold has choose a cannot be equalified at any p. CAUTION! The genuity have W. L. Douglas name and price stamped on bottom. No substitute. Ask your dealer for W. L. Douglas shoes. If he cannot supply you direct to factory, Shoes sent everywhere by mail. Catalog free. W.L.Douglas, Brockton,

at any price.

the Cloverland Dairy Section. Clay loam soil—pure water—lands close to towns, with valuable timber, at low prices and easy terms. Cheap Building Material. Best of Markets. Similar soil in improved farms in Southern part of the State now sells for \$75 to \$150 per acre. Write for imformation to,

COMMISSIONER OF IMMIGRATION, - MADISON, WISCONSIN

which will work well can be made distances of a few hundred feet only, an ordinary automobile spark coll can Take a five-candlepower lamp and be used in place of the more elabor break off the tip at the dotted line, as ate coil, Fig. 1 to 4.

Electricity in Spain.

The recent increase in the use of electricity in Spain has been so rapid that an official report states that to-day very few localities exist where the electric light is not employed. This is particularly true of places situwhere electric motors are found taking the place of steam power. Yet the construction of electric apparatus in Spain has not kept step with the growth in its employment, 80 per cent. of the dynamos and motors being imported from Germany. Most of the remainder come from France and

An Efficient Wireless Telegraph. A simple but very efficient wireless | shown in Fig. 5. This can be done by

telegraph may be constructed at giving the glass tip or point a quick slight cost from the following deblow with a file or other thin edged scription by George W. Richardson: piece of metal. Then with a blow-The sending apparatus consists of torch heat the broken edges until red nothing but an induction coil with a hot and turn the edges in as seen in

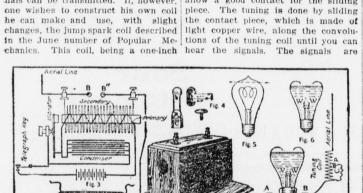
apparatus can be purchased from any

The Aerial Wire on Pole. electrical supply house. The price of the coil depends upon its size, and upon the size depends the distance signals can be transmitted. If, however,

telegraph key inserted in the primary Fig. 6. Remove the carbon filament circuit, i. e., the battery circuit. This in a lamp and bend the two small platinum wires so they will point at each other as in Fig. 6, W W. Screw the lamp into an ordinary wall socket which will serve as a base as in Fig. . Make a solution of four parts of vater to one part sulphuric acid, and fill the lamp about two-thirds full (Fig. This will make an excellent receiver. It will be necessary to adjust the platinum points, W W, to suit the distance the message is to be worked. For a mile or less the points should be about one-sixteenth inch apart, and closer for longer distances.

The tuning coil is simply a variable choking coil, made of No. 14 insulated

copper wire wound on an iron core, as shown in Fig. 7. After winding, carefully scrape the insulation from one side of the coil, in a straight line from top to bottom, the full length of the coil, uncovering just enough to allow a good contact for the sliding



coil, will transmit nicely up to a dis- | heard in a telephone receiver, which tance of one mile; while a 12-inch coil made on the same plan will transmit 20 miles or even more under favorable conditions.

Change the coil described, as follows: Insert an ordinary telegraph key in the battery circuit, and attach two small pieces of wire with a brass ball on each, by inserting them in the binding-posts of the coil as shown at the other wire is sent aloft and is and carry the aerial wire to the top called the aerial line. This constitutes all there is to the sending appa-

Now for the receiving apparatus. In the earlier receiving instruments a coherer was used, consisting of a glass leading or aerial wire. The aerial tube about one-eighth inch diameter, wire should not come nearer than in which were two silver pistons separated by nickel and silver filings, in a is grounded. partial vacuum. This receiver was dif-ficult of adjustment and slow in trans-post, A, to the ground and be sure mission. An instrument much less to make a good connection. inexpensive and

is shown connected in shunt across the binding-posts of the lamp holder with one or two cells of dry battery in circuit, Fig. 7.

The aerial line, No. 6 stranded, is run from binding-post B through the in our family regularly. choking or tuning coil, and for best results should extend up 50 ft. in the air. To work a 20-mile distance the line should be 100 or 150 ft. above B, B inches. From these two terminal the ground. A good way is to erect wizes one is grounded to earth, while a wooden pole on a house or barn

> To the end of the aerial wire fasten bunch of endless loops made of about No. 14 magnet wire (bare or insulated), attaching both ends to the 1 ft. at any point to any metal which

For simple experimental work on

as possible on Grane-Nuts.

"We all appreciate what your famous food has done for our family."
"There's a Reason." Read "The Road

"The Road"

PATENTS Water, Column, Patent Attor.
"There's a Reason." Read "The Road"

PATENTS "In place"